



Absorptive Digital Control Attenuator 4-18GHz

Features

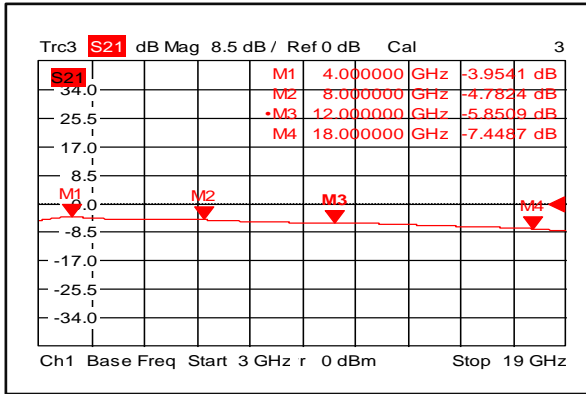
- Wide Band Operation 4-18GHz
- 0.25dB LSB Steps to 64dB
- Single Positive Control Line Per Bit
- Customization available upon request



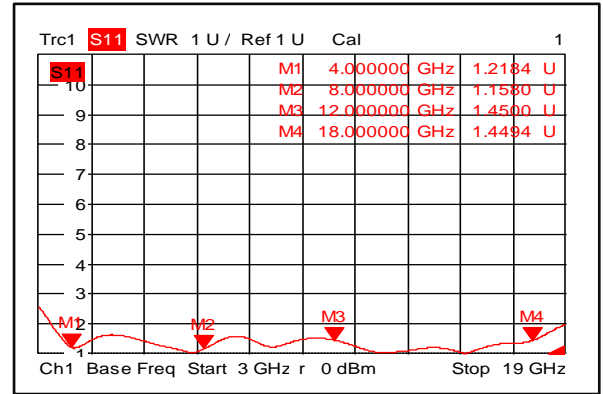
Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	4-12		12-18				GHz
Attenuation Range			64			64	dB
Attenuation Flatness: (Referenced to Insertion Loss)		±1.5	±3		±1.5	±3	dB
Control Bits			8			8	Bit
Control Step size		0.25			0.25		dB
Insertion Loss		5.5	7		7.5	8.5	dB
Insertion Loss Temperature Coefficient		0.01			0.01		dB/ °C
Input VSWR(All Atten. States)		1.5	1.8		1.5	2	: 1
Output VSWR (All Atten. States)		1.5	1.8		1.5	2	: 1
Input 0.1 dB Compression Point (P0.1dB)		25			25		dBm
Input IP3		50			50		dBm
Switching Speed		100	150		100	150	ns
Weight	1.41						ounces
Impedance	50						Ω
Bias Current (+5V/-5V)	140/140						mA
Input /Output Connectors	SMA-Female						
Interface and control connertor	MICRO-D15(Female)						
Finish	Gold Plated						
Material	Aluminum						
Sealing	Hermetically Sealed (optional)						



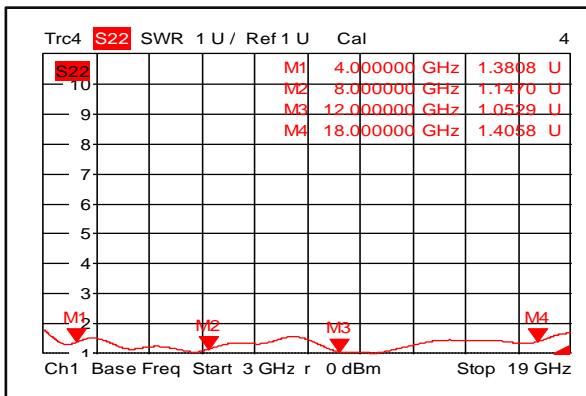
Insertion Loss @+25°C



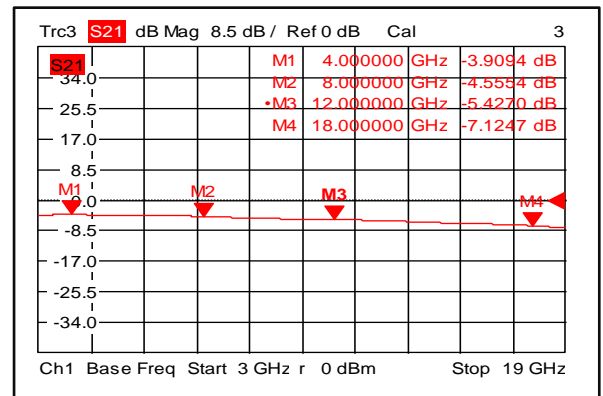
Input VSWR @+25°C



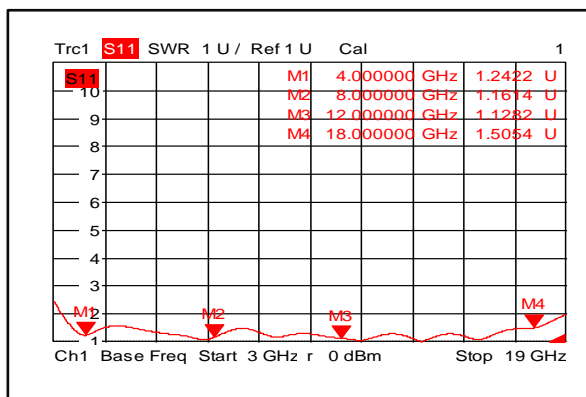
Output VSWR @+25°C



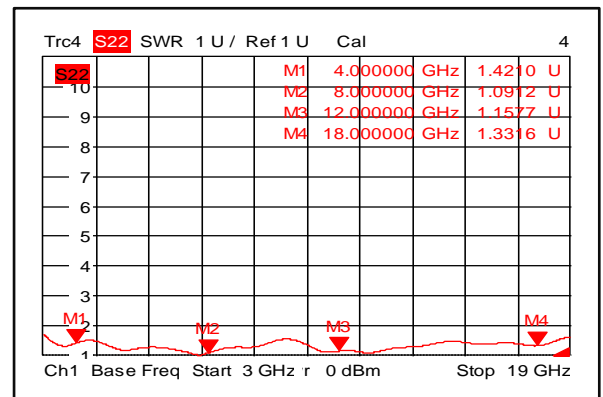
Insertion Loss @-40°C



Input VSWR @-40°C

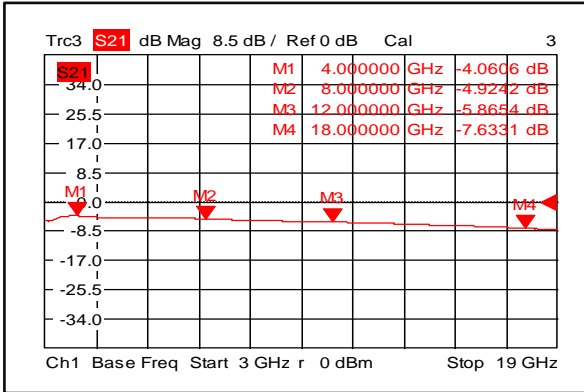


Output VSWR @-40°C

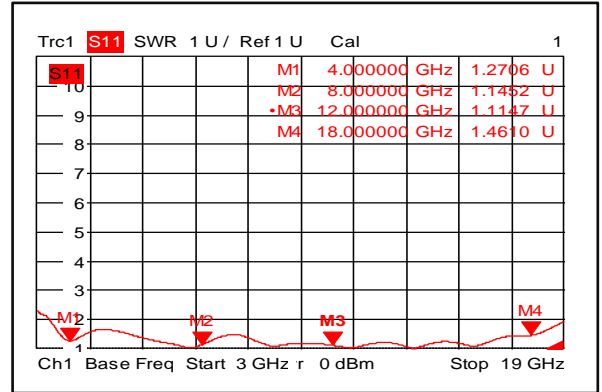




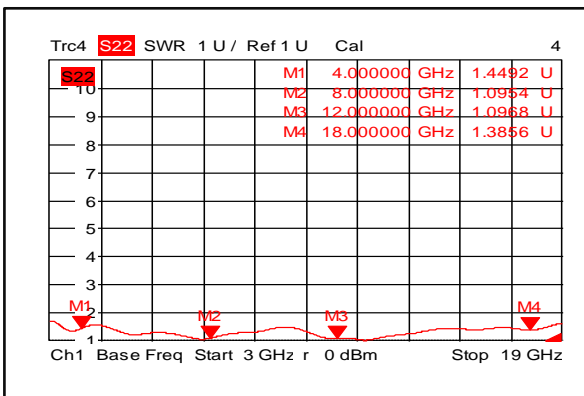
Insertion Loss @+85°C



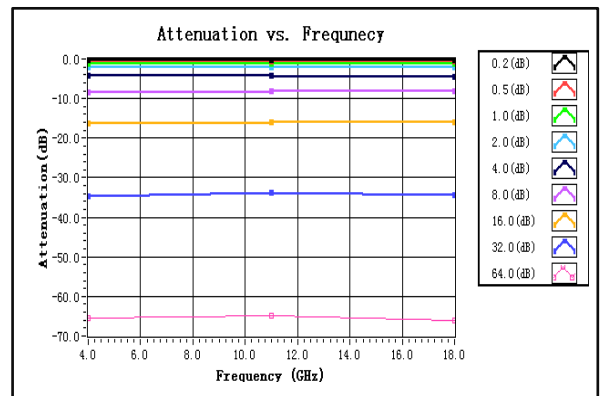
Input VSWR @+85°C



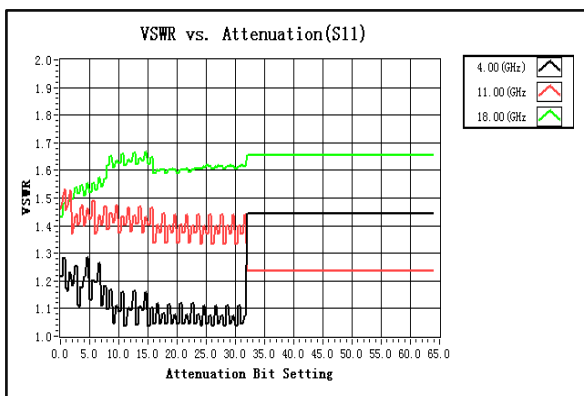
Output VSWR @+85°C



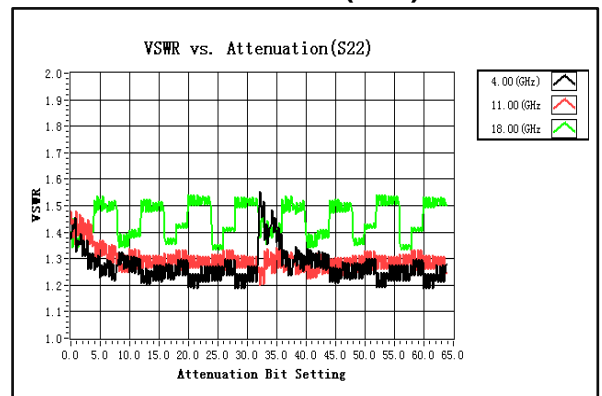
Attenuation vs. Frequency



VSWR vs. Attenuation(S11)

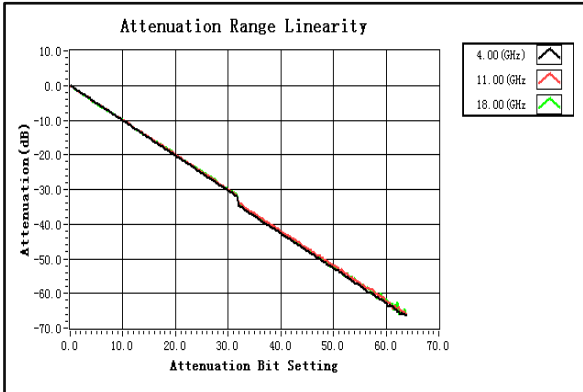


VSWR vs. Attenuation(S22)

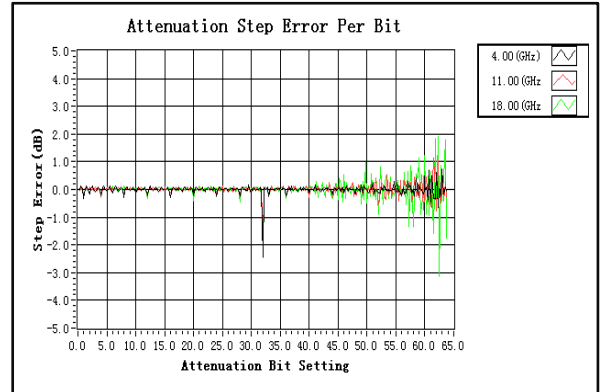




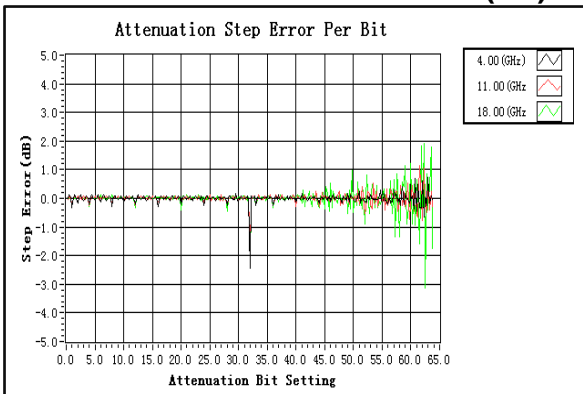
Attenuation Range Linearity



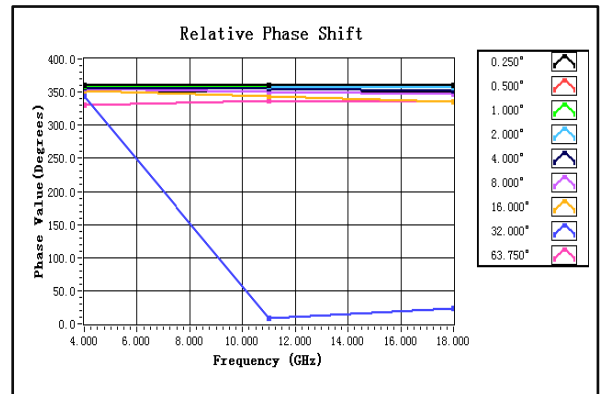
Attenuation Step Error Per Bit (dB)



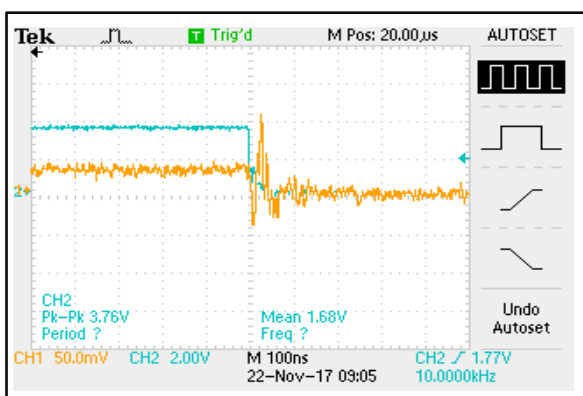
Accumulated Attenuation Error(dB)



Relative Phase Shift



Speed



Speed

